

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENTAPR 15 2003
Use several sheets if necessary)ATTY. DOCKET NO.
612,404-384 (formerly
267/156)SERIAL NO.
10/072,660APPLICANT:
Ying Huang et al.FILING DATE:
February 6, 2002GROUP:
1241753

RECEIVED

APR 16 2003

TC 1700

T068

03/85

12/86

05/89

03/91

07/93

03/95

11/94

05/97

T2/97

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
ADD		US-3627137	12/71	Bier	210	321	T068
ADD		US-4617102	10/86	Tomblin et al	204	299	
ADD		US-4737259	04/88	Ogawa et al	204	299	12/86
ADD		US-4936963	06/90	Mandecki et al	204	182.8	05/89
ADD		US-5078853	01/92	Manning et al	204	299	03/91
ADD		US-5427664	06/95	Stoev et al	204	182.3	07/93
ADD		US-5593580	01/97	Kopf	210	321.75	03/95
ADD		US-5728267	03/98	Flaherty	210	321.67	11/94
ADD		US-6048690	04/00	Heller et al	435	006	05/97
ADD		US-6051380	04/00	Sosnowski et al	435	006	T2/97

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
ADD		DE 2051715A	04/72	Germany (Max Planck Ges)	—	—	✓
ADD		GB 1359944A	07/74	GB (Miles Labs)	—	—	—
ADD		GB 2118975A	11/83	GB (Nishizawa)	—	—	—

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

ADD	CHENG, J., et al. "Preparation and Hybridization Analysis of DNA/RNA From E.coli On Microfabricated Bioelectronic Chips", Nature/Biotechnology, 16, pp. 541-546 (1998)
ADD	GILLES, P.N., et al. "Single Nucleotide Polymorphic Discrimination By An Electronic Dot Blot Assay On Semiconductor Chips", Nature/Biotechnology v. 17, #4, pp. 365-370 (1999).
ADD	HELLER, M.J. "An Active Microelectronics Device For Multiplex Analysis", IEEE Engineering in Medicine and Biology, pp. 100-104 (March/April 1996).
ADD	HUANG, Y., et al. "Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes" Analytical Chemistry, v.73, n.7, pp. 1549-1559 (2001)

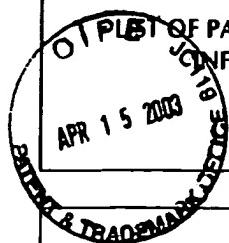
EXAMINER:
Not Yet Assigned*Al D*

DATE CONSIDERED:

1/10/05

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

FORM PTO-1449



(Use several sheets if necessary)

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ADD		MANZ, A., et al., "Miniaturized Total Chemical Analysis System: A Novel Concept for Chemical Sensing" Sensors and Actuators B1, pp. 244-248 (1990)
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ADD	3,346,479	10/10/1967	Natelson	204	301	04/09/1964
AOD	3,375,187	03/26/1968	Buchler	204	301	05/13/1965
ADD	3,533,933	10/13/1970	Strauch	204	180	04/01/1968
ADD	3,539,493	11/10/1970	Dorman	204	299	08/31/1967
ADD	3,616,454	10/26/1971	Levy et al.	204	299	03/13/1969
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AOD	4,390,403	06/28/1983	Batchelder	204	547	07/24/1981
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Alvin D. Dill

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AD	5,139,637	08/18/1992	MacConnell	204	299	09/13/1991
AD	5,151,189	09/29/1992	Hu et al.	204	635	09/17/1990
AD	5,161,165	09/29/1992	Huynh	204	299	04/25/1990
AD	5,202,010	04/13/1993	Guzman	204	299	08/28/1991
AD	5,209,831	05/11/1993	MacConnell	204	299	06/14/1991
AD	5,217,593	06/08/1993	MacConnell	204	299	07/30/1992
AD	5,269,931	12/14/1993	Hu et al.	210	635	08/20/1991
AD	5,296,114	03/22/1994	Manz	204	180	11/30/1992
AD	5,340,499	08/23/1994	Shukla	204	180	10/23/1992
AD	5,344,535	09/06/1994	Betts et al.	204	183	04/27/1993
AD	5,376,249	12/27/1994	Afeyan et al.	204	180	11/25/1992
AD	5,382,511	01/17/1995	Stapleton	435	6	08/24/1992
AD	5,445,934	08/29/1995	Fodor et al.	435	6	09/30/1992
AD	5,434,049	07/18/1995	Okano	435	6	02/24/1993
AD	5,451,500	09/19/1995	Stapleton	435	6	03/03/1992
AD	5,527,670	06/18/1996	Stanley	435	6	08/09/1994
AD	5,569,367	10/29/1996	Betts et al.	204	547	01/27/1995
AD	5,589,047	12/31/1996	Coster et al	204	450	04/05/1994
AD	5,605,662	02/25/1997	Heller et al.	422	68	11/01/1993
AD	5,632,957	05/27/1997	Heller et al.	422	68	09/09/1994
AD	5,653,859	08/05/1997	Parton et al.	204	450	11/20/1995

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ADD	5,653,939	08/05/1997	Hollis et al.	422	38	08/07/1995
ADD	5,795,457	08/18/1998	Pethig et al.	204	547	06/05/1995
ADD	5,814,200	09/29/1998	Pethig et al.	204	547	09/26/1995
ADD	5,849,486	12/15/1998	Heller et al.	435	6	09/27/1995
ADD	5,858,192	01/12/1999	Becker et al.	204	547	10/18/1996
ADD	6,017,696	01/25/2000	Heller	435	6	07/07/1994
ADD	6,054,270	04/25/2000	Southern	435	6	09/09/1997
ADD	6,071,394	06/06/2000	Cheng et al.	204	547	01/30/1998
ADD	6,099,803	08/08/2000	Ackley et al.	422	68.1	02/20/1998
ADD	6,113,768	09/05/00	Fuhr et al.	204	643	09/09/1996
ADD	6,280,590	08/28/2001	Cheng et al.	204	463	04/13/2000
ADD	6,309,601	10/30/2001	Juncosa et al.	422	68.1	05/01/1997
ADD	6,335,161 B1	01/01/2002	Martin et al.	435	6	02/25/1998

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
ADD	EP 0047645 B1	11/28/1984	EP (Kashihara et al.)	—	—	—
ADD	EP 0243501 A1	11/04/1987	EP (Saeda et al.)	—	—	—
ADD	JP 55-152027 A	11/27/1980	JP (Keisuke et al.)	—	—	✓
ADD	JP 56-167419 A	12/23/1981	JP (Toshiji et al.)	—	—	✓
ADD	JP 59-215838 A	12/05/1984	JP (Hideo et al.)	—	—	✓
ADD	JP 59-227131 A	12/20/1984	JP (Hiroyuki et al.)	—	—	✓
ADD	JP 01163049 A	06/27/1989	JP (Satoshi et al.)	—	—	✓
ADD	JP 02292013 A	12/03/1990	JP (Hidekazu et al.)	—	—	✓
ADD	USSR 434985 A1	01/21/1975	USSR	—	—	✓

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Kai K. Olsen*Alvin D. S.*

DATE CONSIDERED:

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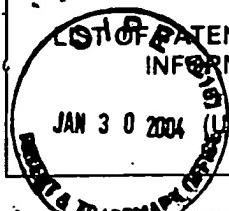
612404-384

10/072,660

Ying Huang, et al.

February 6, 2002

1753



JAN 30 2004 (Use several sheets if necessary)

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
ADD	USSR 616568 A1	07/25/1978	USSR	—	—		✓
ADD	WO 01/13126 A1	02/22/2001	PCT (Heller et al.)	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

ADD	Becker et al., "The removal of human leukemia cells from blood using interdigitated microelectrodes," J. Phys. D: Appl. Phys. 27 (1994) 2659-2662.
ADD	Camag, Inc. Product Literature (<i>Date Unknown</i>).
ADD	Edman, C.F. et al., "Electric field directed nucleic acid hybridization on microchips", Nucleic Acids Research, Vol. 25, No. 24, pp. 4907-4914, (1997).
ADD	Fuhr et al., Positioning and Manipulation of Cells and Microparticles Using Miniaturized Electric Field Traps and Travelling Waves; Sensors and Materials, Vol. 7, No. 2 (1995) 131-146.
ADD	Fuhr, G., "Cell Manipulation and Cultivation Under AC Electric Field Influence in Highly Conductive Culture Media", Biochem. Biophys. Acta, Vol. 1158, pp. 40-46, (1993).
ADD	Markx et al., "Dielectrophoretic characterization and separation of micro-organisms", Microbiology (1994) 140, 585-591.
ADD	Markx et al., "Dielectrophoretic separation of bacteria using a conductivity gradient," Journal of Biotechnology, 51 (1996) 175-180.
ADD	Pethig R. et al., "Positive and negative dielectrophoretic collection of colloidal particles using interdigitated castellated macroelectrodes," J. Phys. D: Appl. Phys, 24 (1992) 881-888
ADD	Pethig, R., "Dielectrophoresis: Using Inhomogeneous AC Electrical Fields to Separate and Manipulate Cells," Critical Reviews in Biotechnology, 16(4):331-348 (1996)
ADD	Scanning Laser Microscopy Lab, Web Site print-out, http://www.science.uwaterloo.ca/research_groups/confocal (1997)
ADD	Sosnowski, R. et al., "Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997.
ADD	Tony Wilson and Colin Sheppard, "Theory and Practice of Scanning Optical Microscopy", Academic Press, 1984 (ISBN-0-12-757760-2)
ADD	Wang et al., "Dielectrophoretic Manipulation of Particles," IEEE Transactions on Industry Applications, Vol. 33, No. 3 (May/June 1997)
ADD	Wang, X., "A Unified Theory of Dielectrophoresis and Travelling Wave Dielectrophoresis", J. Phys. D: Appl. Phys., Vol. 27, pp. 1571-1574, 1994.
ADD	Washizu, M., "Molecular Dielectrophoresis of Biopolymers", IEEE Trans. Industry Applicat., Vol. 30, pp. 835-843, 1994.

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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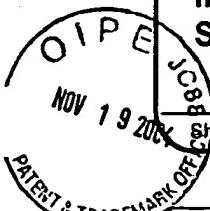
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of

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Complete if Known

Application Number	10/072,660
Filing Date	February 6, 2002
First Named Inventor	Ying Huang
Group Art Unit	1753
Examiner Name	Alan D. Diamond
Attorney Docket Number	612404-384 (prev. 267/156)



Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number	Kind Code ² (if known)		
ADD	US-4,740,283	—	Laas et al.	04/26/1988
AWJ	US-5,062,942	—	Kambara et al.	11/05/1991

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁴
	Office ³	Number ⁴	Kind Code ⁵ (if known)			

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature		Date Considered	1/10/05
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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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SEP 20 2004 (Use several sheets if necessary)

PATENT TRADE MARK OFFICE

U.S. PATENT DOCUMENTS							
EXAMINE R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
		US-3627137	12/71	Bier	210	321	10/68
		US-4617102	10/86	Tomblin et al	204	299	03/85
		US-4737259	04/88	Ogawa et al	204	299	12/86
		US-4936963	06/90	Mandecki et al	204	182.8	05/89
		US-5078853	01/92	Manning et al	204	299	03/91
		US-5427664	06/95	Stoy et al	204	182.3	07/93
		US-5593580	01/97	Kopf	210	321.75	03/95
		US-5728267	03/98	Flaherty	210	321.67	11/94
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		US-6051380	04/00	Sosnowski et al	435	006	12/97

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		GB 2118975A	11/83	GB (Nishizawa)			

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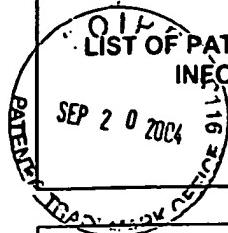
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Duplicate of
IDS Filed 4/15/03

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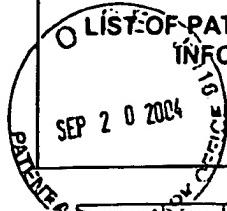
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	5,161,165	09/29/1992	Huynh	204	299	04/25/1990
	5,202,010	04/13/1993	Guzman	204	299	08/28/1991
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	5,296,114	03/22/1994	Manz	204	180.1	11/30/1992
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	5,344,535	09/06/1994	Betts et al.	204	183.1	04/27/1993
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10/072,660

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APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

**LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT**

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(Use several sheets if necessary)

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,653,939	08/05/1997	Hollis et al.	422	50	08/07/1995
	5,795,457	08/18/1998	Pethig et al.	204	547	06/05/1995
	5,814,200	09/29/1998	Pethig et al.	204	547	09/26/1995
	5,849,486	12/15/1998	Heller et al.	435	6	09/27/1995
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